Index to Volume 10

Authors

A

Acharya, Prakash 122
Addison, G. E. 314
Ahmad, Saif 211
Alperin, Edward S. 40
Alston, Denise R. 1
Ayen, Richard J. 175

B

Bacher, S. 192
Barton, Douglas A. 96
Bond, James J. 60
Bowlen, G. F. 104
Brian, B. 192
Briggs, Dale E. 24
Brown, Eric V. 159

C

Canter, Larry W. 300
Card, Thomas R. 290
Chang, Li-Yang 110
Chang, Robert C. 45
Chapman, D. R. 129
Chen, S. L. 182
Chong, Nyuk-Min 261
Chozick, R. 282
Chowdhury, Ajit K. 205
Cindric, David T. 267
Ciriacks, John A. 215
Clearwater, Scott W. 169
Cobb, David 49
Corsi, Richard L. 290
Cunhill, Fidel 273

D

Dhawan, S. 251
Dobbs, Richard 13
Dorchalk, Thomas P. 186

E

Enzminger, Jeffrey D. 159
Erickson, L. E. 251

F

Fan, L. T. 89, 251
Ford, Bill 278
Fox, Robert D. 40
Friday, David D. 30
Friday, Thomas L. 218

G

Galt, Jerry 278
Gangwal, Santosh K. 186
Gemar, Claudia 154
Glatch, Lisa 49
Gleason, Cynthia L. 225
Goldblum, David K. 24
Golomb, D. 64
Gomaa, Hassan M. 267
Govind, Rakesh 13
Grady, C. P. Leslie Jr. 133
Gupta, Rakesh 218

H

Hackemesser, Larry G. 267
Hardison, L. C. 314
Herzog, H. 64
Hill, G. A. 147
Holodnick, Steven E. 24
Huang, Y. L. 89
Huls, Hubert H. 40

I

Irvine, R. L. 282
Izquierdo, Jose F. 273

J

Jadvar, Reza 278
Jones, Kay H. 1

K

Kosson, D. S. 104
Kroll, Peter J. 45
Krueger, Richard C. 205
Kwong, K. Vincent 211

L

LaFond, James, F. 215
Lai, Lei 13
Larsen, Eric S. 75
Lewin, Daniel R. 234
Lyon, R. K. 182

M

Madden, P. C. 129
Magliettte, R. J. 192
Maibodi, Mehdi 307
Mancy, Khalil 24
Martinez, Juan C. 273
McCoy, Benjamin J. 110, 278
McKeown, James J. 96
McKinney, D. 192
McMichael, William J. 186
Meissner, Roland E. 211
Miller, Dennis E. 300
Mou, Duen-Gang 261
Mulholland, James A. 83

N

Nagl, G. J. 314
Novak, Rudy G. 122

O

Opatkin, Edward J. 60

P

Pilat, Michael J. 75
Portier, Ralph J. 30

Q

Quail, B. 147
Querol, Javier 273

R

Reisser, Ayre 234
Reynolds, Caroline C. 319
Rochelle, Gary T. 225
Rudd, John 49

S

Sarofim, Adel F. 83
Scanlon, Joanne M. 169
Seeker, W. R. 182
Siebert, Paul C. 1
Siegell, J. H. 129
Simpson, Theodore B. 248
Skedsvold, Daniel A. 133
Snyder, Scott 49
Stuart, B. J. 104
Sundar, G. 89
Swanstrom, Carl 175

T

Tejero, Javier 273
Tokuz, R. Yucel 198
Tomusiak, M. E. 147
Tuitemwong, P. 251

W

Warner, Michael A. 205
Wekhof, Alex 241
Wendt, Carl J. 211

V

Van Cleave, K. M. 147
Venkataramani, E. S. 192

Y

Yue, Guangxi 83

Z

Zemba, S. 64

Titles

A

Advanced Non-Catalytic Post Combustion NO_x Control 182
Air Assessment for Land Treatment No-Migration 129
Alternative Waste Minimization Analyses for the Printed Circuit Board Industry: Examples for Small and Large Manufacturers 110
Application of Amines for Treating Flue Gas From Coal-Fired Power Plants 211
Application of Selective Catalytic Reduction (SCR) Technology for NO_x Reduction from Refinery Combustion Sources 49
At-Source Treatment for Organomecury-Containing Hazardous Liquid Waste, An..... 192

B

Biological Process Design and Pilot Testing for A Carbon Oxidation, Nitrification, and Denitrification System 133
Bioreactor Design Effect on Biodegradation Capabilities of VOCs in Wastewater 147
Biotreatment of Hazardous Organic Wastes Using Rotation Biological Contractors..... 198

C

Competitive Sorption of Benzene, Toluene and the Xylenes onto Soil 104
Computerized Batch Process for Treating Electroplating Wastes 234
Control of Aromatic Waste Air Streams by Soil Reactors 300

D

Direct Sulfur Recovery Process, The 186
Design and Testing of a Moving Bed VOC Adsorption System.....75
Development of an Immobilized Microbe Bioreactor for VOC Applications.....30
Development of a Transportable Thermal Separation Process 175

E

Estimation of VOC Emissions Using the BASTE Model 290
Evaluation of Supplemental Oxygen Burner Firing in a Countercurrent Rotary Kiln, The..... 122

F

Feasibility, Modeling and Economics of Sequestering Power Plant CO_2 Emissions in the Deep Ocean 64
Field Verification of Predictive Modeling of Organic Compound Removal by Biological Wastewater Treatment Processes 96
Formation of Inorganic Particles During Suspension Heating of Simulated Wastes, The 83
Full-Scale Remediation of a Grey Iron Foundary Waste Surface Impoundment..... 205

I

Incineration System "Thermal Siphon" Effect, The.....45
Influence of Different Additives on the Reaction Between Hydrated Lime and Sulfur Dioxide 273
Implications of the Clean Air Act Acid Rain Title on Industrial Boilers 307
Integrated Model for Predicting the Fate of Organics in Wastewater Treatment Plants.....13

L

Legal Incentives for Minimizing Waste 169
Limiting Emissions of the Greenhouse Gas, CO_2 248

M

MIN-CYANIDE: An Expert System for Cyanide Waste Minimization in Electroplating Plants 89
Modeling Analysis and Simulation of Bioremediation of Soil Aggregates..... 251

N

New Storm Water Regulations Impact Industry..... 154
NO_x Reduction by the Econ-NO_x™ SCR Process 314
NO_x/CO Emissions and Control in Ethylene Plants..... 267
Nucleation and Crystal Growth of Calcium Sulfite Hemihydrate 225

O

Oxygen Membrane Used as a Toxicity Blosensor 24

P

Preliminary Studies on the Granular Activated Carbon-Sequencing Batch Biofilm Reactor..... 282
Potential Problems Using the CLP to Determine BDAT Compliance 319

R

RBC Nitrification of High Ammonia Leachates 60
Recovery of Gallium and Arsenic from GaAs Wafer Manufacturing Slurries 278
Regeneration of Waste Chemicals from Liquid Redox Processes 215
Research Institute Wastewater Treatment Program, A..... 261

S

Selection of Treatment Process to Meet OCPSF Limitations..... 218

T

Temperature Profile and Heat Transfer Model for a Chemical Wastewater Treatment Plant 159
Thermal Treatment for the Removal of PCBs and Other Organics for Soil 40
Toxic Trace Pollutants from Incineration 1
Treatment of Contaminated Water, Air and Soil with UV Flashlamps..... 241

Subjects

A

Acid rain, implications of the Clean Air Act Acid Rain Title..... 307
Adsorption system, VOC 75
Air
  aromatic waste air streams, control of..... 300
  assessment for land treatment "No-migration"..... 129
  Clean Air Act Acid Rain Title, implications of..... 307
  treatment of contaminated air with UV flashlamps..... 241
Amines, application for treating flue gas from power plants 211
Ammonia leachates, RBC nitrification of..... 60
Arsenic and gallium from GaAs wafer manufacturing slurries 278
At-source treatment for hazardous liquid waste 192

B

BASTE (Bay Area Sewage Toxic Emissions) model, using 290
Batch biofilm reactor 282
Batch process, computerized 234
BDAT (Best Demonstrated Achievable Technology) compliance..... 319
Benzene, toluene and the xylenes, competitive sorption onto soil..... 104
Biodegradation capabilities of VOCs 147
Biological
  contactors, rotating..... 198
  process design and pilot testing.. 133
  wastewater treatment processes.. 96
Bioreactor
  design effects on biodegradation capabilities of VOCs 147
  development of an immobilized microbe..... 30
Bioremediation of soil aggregates.. 251
Biotreatment for hazardous organic wastes 198
Biosensor, toxicity 24

C

Carbon oxidation, nitrification and denitrification system 133
Catalytic reduction, selective..... 49
Clean Air Act Acid Rain Title, implications of..... 307
CO_2
  emissions in the deep ocean 64
  greenhouse gas, limiting emissions of 248
Coal fired power plants, amines for treating flue gas from..... 211
Computerized batch process for treating electroplating wastes..... 234
Contaminated water, air and soil, treatment of 241
Countercurrent rotary kiln..... 122
Cyanide waste minimization, a system for..... 89

E

Economics of sequestering power plant CO_2 emissions in the deep ocean... 64
Electroplating
  plants, cyanide waste minimization in 89
  wastes, computerized batch process for treating..... 234
Emissions
  CO_2 in the deep ocean 64
  limiting greenhouse gas CO_2 248
  NO_x/CO and control in ethylene plants..... 267
Ethylene plants, NO_x/CO emissions and control in..... 267

F

Field verification of predicting modeling of organic compound removal..... 96

G

Gallium and arsenic from GaAs wafer manufacturing slurries 278
Grey iron foundry waste surface impoundment 205
Granular activated carbon-sequencing batch biofilm reactor..... 282

H

Hazardous wastes
  liquid waste, at-source treatment for 192
  organic wastes, using rotating biological contactors..... 198
Heat Transfer model and temperature profile for wastewater treatment... 159
High ammonia leachates, RBC nitrification of..... 60
Hydrated lime and sulfur dioxide, reaction between 273

I

Industrial boilers, implications of the Clean Air Act Acid Rain Title on . 307
Immobilized microbe bioreactor ... 30
Incineration
  system, "thermal siphon" effect 45
  toxic trace pollutants from 1
Inorganic Particles, the formation of 83
Integrated model for predicting fate of organics..... 13

K

Kiln, countercurrent rotary, supplemental oxygen burner firing in..... 122

L

Liquid redox processes, regeneration of waste chemicals from 215
Land treatment, air assessment for 129
Legal incentives for minimizing waste 169

M

MIN-CYANIDE, a system for cyanide waste minimization 89
Microbe bioreactor, development of 30
Moving bed VOC adsorption system 75

N

Non-Catalytic post combustion NO_x control 182
NO_x
  control, non-catalytic post combustion 182
  reduction 49, 314
Nucleation and crystal growth of calcium sulfite hemihydrate 225

O

Ocean, CO_2 emissions in 64
OCPSF pretreatment standards, treatment process to meet..... 218
Organic(s)
  compound removal by biological wastewater treatment..... 96
  integrated models for predicting fate of..... 13
  in wastewater treatment plants .. 13
  OCPSF limitations, selection of treatment process to meet..... 218
  thermal treatment for removal from soil 40
Organomecury-containing hazardous liquid waste..... 192
Oxygen
  membrane electrode used as a toxicity biosensor 24
  supplemental oxygen burner firing in a countercurrent rotary kiln..... 122

P

PCBs and other organics, thermal treatment for removal from soil..... 40
Plants
  coal-fired power plants, amines for treating flue gas from..... 211
  electroplating, cyanide waste minimization in 89
  ethylene, NO_x/CO emissions and control in 267
  power plant emissions in the deep ocean 64
  wastewater treatment..... 13
Pollutants, toxic trace..... 1
Post combustion, non-catalytic NO_x control 182
Power plant CO_2 emissions in the deep ocean 64

R

RBC nitrification of high ammonia leachates..... 60
Refinery combustion sources, NO_x reduction from 49
Rotating biological contactor(s) 60, 198

S

Selective catalytic reduction (SCR) technology 49
Sequestering power plant CO_2 emissions 64
Soil
  reactors, for control of aromatic waste air streams 300
  treatment of contaminated..... 241
Storm water, new regulations impact industry..... 154
Sulfur dioxide and hydrated lime, reaction between..... 273
Sulfur recovery process..... 186
Supplemental oxygen burner firing 122
Suspension heating of simulated wastes 83

T

Temperature profile and heat transfer model for wastewater treatment 159
Toluene, benzene and the xylenes, competitive sorption onto soil..... 104
Toxic Trace Pollutants..... 1
Toxicity Characteristic Leaching Procedure (TCLP)..... 319
Toxicity Biosensor, oxygen membrane electrode used as a..... 24
Trace Pollutants, toxic..... 1
Thermal treatment for removal of PCBs 40
Thermal siphon effect, incineration system..... 45
Transportable thermal separation process, development of..... 175
Treatment for hazardous liquid waste 192
Treatment plants, wastewater..... 13

U

UV flashlamps, treatment of contaminated water, air and soil with..... 241

V

Volatile organic compounds (VOC)
  adsorption system, design and testing of a moving bed..... 75
  applications, immobilized microbe bioreactor for 30
  bioreactor design effects on biodegradation capabilities of..... 147
  emissions, estimating using the BASTE model..... 290

W

Water, new storm regulations impact industry..... 154
Waste minimization
  alternative analyses for the printed circuit board industry 110
  legal incentives for..... 169
Waste
  aromatic waste air streams, control of..... 300
  chemicals, regeneration from liquid redox processes..... 215
  electroplating, computerized batch process for treating..... 234
  surface impoundment, remediation of a grey iron foundry..... 205
Wastewater
  biodegradation capabilities of VOCs in 147
  biological treatment processes ... 96
  research institute treatment program 261
  treatment of contaminated water with UV flashlamps..... 241
  treatment plants 13, 159

X

Xylenes, benzene and toluene, competitive sorption onto soil..... 104